



## Coaches Want to Know About



e-Community Ontario  
Communauté d'apprentissage Ontario

**Math Coaching Network**



e-Learning Apprenticeship Ontario

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Welcome

**Welcome to the Math Coaching Network to:**

- share ideas, practices, experiences and resources.
- discuss areas of interest and coaching issues.

**Calendar**

May 2011

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**News**

**News Item**

**Math CAMPPP August 15-19, 2011**

April 13, 2011

Math CAMPPP 2011 registration is now open. This popular professional learning activity fills up quickly so don't delay go to [Math GAINS](#) for details and registration.


**Math GAINS Website**

Visit the [Math GAINS](#) website to access an extensive growing number of resources to improve mathematics teaching and learning.

**MathGAINS**

Join the Math Coaching Network at the Coaching Station in the Math GAINS Room at the 2011 OAME Annual Conference in Windsor or email [coachingmathgains@gmail.com](mailto:coachingmathgains@gmail.com).


Coaching supports on the Math GAINS website in the Coaching section.  
[www.edugains.ca](http://www.edugains.ca)



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**Math GAINS**

*Building individual and collective capacities to improve mathematics teaching and learning in Ontario*


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**Math Pulse of the Province**

By regularly checking the **Math Pulse of the Province** feature, both teachers and administrators can view upcoming initiatives that are planned throughout the province.

• April 13, 2011 

**Math GAINS Home**

**Learning Materials**

**Coaching**

- ▶ Developing Coaches
- ▶ 2009-10 PL Series
- ▶ 2008-09 Coaching for Math GAINS
- ▶ Templates & Frameworks
- ▶ Wiki

## Mathematics Learning Materials for Coaches, Teachers and Students

Posted on **Math GAINS:** [www.edugains.ca](http://www.edugains.ca)

Resource	Intended Audience/ Description
<b>CLIPS</b>	Teachers of grades 6 – 11 with whole class, individual students Web-based interactive learning activities that currently include: <ul style="list-style-type: none"> <li>➤ Fractions – Representing Part/Whole Relationships (gr. 4 – 6)</li> <li>➤ Integers – Representing, Comparing and Ordering (gr. 7)</li> <li>➤ Patterning to Algebra – Representations of Linear Growing Patterns (gr. 7 - 9)</li> <li>➤ Trigonometry – Periodic and Sine Functions (gr. 11)</li> <li>➤ Transformations – Periodic and Sine Functions (gr. 11)</li> <li>➤ Introduction includes a 'Virtual Tour' &amp; 'Navigating CLIPS' - 1 pg. overview</li> </ul> <i>Also</i> <a href="http://www.mathclips.ca">www.mathclips.ca</a> (directly to CLIPS)
<b>Continuum &amp; Connections</b>	Teachers of grades K-12 Topics include: Fractions, Integers, Patterning to Algebra, Perimeter, Area and Volume, Solving Equations and the Proportional Reasoning Package recently released by the Ministry. For each topic there: <ul style="list-style-type: none"> <li>➤ are connections to everyday situations</li> <li>➤ is a list of relevant manipulatives, technology and web-based resources</li> <li>➤ is a learning trajectory from Grades 6 – 10 with suggested instructional strategies for each grade</li> <li>➤ are grade specific questions that focus on specific knowledge and the mathematical processes</li> <li>➤ are short-answer questions that are both procedural and problem solving in nature</li> <li>➤ are rich problems that span the grades (including sample student solutions from each grade).</li> </ul>
<b>EQAO Supports</b>	Teachers of grades 3, 6 and 9 The EQAO website contains activities, resources and supports that could be used directly in the classroom to prepare students for EQAO. <i>Also</i> <a href="http://www.eqao.com">www.eqao.com</a> > Educator Resources
<b>Gap Closing</b>	Teachers of Grade 6 (Grade 9 coming soon) Gap closing is for Grade 6 students who are struggling in mathematics but not in other subjects. This research based resource is intended to target specific gaps in number sense and provide appropriate intervention to close those gaps. Each set of intervention materials includes Open Questions and a Think Sheet approach which can be used whole class, small group or with individual students.
<b>Manipulatives Supports</b>	Teachers of all grades
<b>Tip Sheets</b>	Classroom use of: Algebra Tiles, Base 10 Blocks, Coloured Tiles, Connecting Cubes, Five and Ten Frames, Fraction Circles, Geoboards, Pattern Blocks, Relational Rods, Rekenreks and Tangrams.
<b>Instructional Strategies</b>	How-to videos and documents for: Area Model, Balancing Equations, Colour Tiles, Elastic Metre, Manipulatives Management, Multiple Representations – Pattern Building, Pythagorean Theorem, Relational Rods, Representing Mean and Median, Simplifying Algebraic Expressions Using Algebra Tiles, The Zero Principle, Transformations, and Ways to determine a Square.

## Mathematics Learning Materials for Coaches, Teachers and Students

Posted on **Math GAINS:** [www.edugains.ca](http://www.edugains.ca)

Resource	Intended Audience
<b>Summative Units</b>	Teachers of grades 7, 8, 9 and 10 Applied
	Possible summative activities for each of the above grades, in both pdf and word format. Task specific rubrics can be created using the Generic Rubrics for Mathematical Processes. <a href="#">Math Processes &gt; Generic Rubrics</a>
<b>Technology Supports</b>	Teachers of grades 7 - 12
<b>Applets</b>	An extensive list of pre-made sketches for Geometer's Sketchpad and other files for classroom use.
<b>Software Supports</b>	Access to supports for Ministry-licensed software (Canadian Community Health Survey, Fathom2, GSP, Gizmos, SMART Ideas). These materials are password protected – contact your Board OSAPAC representative. <b>Gizmos™</b> are interactive online simulations that drive conceptual understanding of math and science in grades 7-12. Teachers and students have access to the entire library of over 450 investigations. Gizmos: <ul style="list-style-type: none"> <li>➤ may be used in a computer lab, in small groups, or in whole group instruction using a projector or interactive whiteboard</li> <li>➤ are accessible from home by both teachers and students</li> <li>➤ contain inquiry-based lessons, assessment and reporting</li> </ul>
<b>TIPS4RM</b>	Teachers of Grades 7 - 12
	Supports for beginning teachers and new insights for experienced teachers. Resources include unit outlines, lesson plans, suggestions for ongoing assessment, GSP sketches, synopses of research on topics teachers need to consider when developing unit and lesson plans, and references for further reading and supportive web-sites. <i>Also</i> complete set of lessons and other resources: <a href="http://www.oame.on.ca">www.oame.on.ca</a> > <a href="#">Links/Resources</a>
<b>TIPS IWB</b>	Teachers of grades 7 - 10
	Interactive White Board lesson plans with accompanying SMART™ notebook files.
<b>WINS</b>	Teachers/Parents/Tutors of Grades K - 8
	These packages are designed to support student learning, guided by a learning facilitator. For each grade there is a student booklet containing a sequence of tasks about the Number Sense curriculum strand. Parallel tasks focusing on the same learning goals are presented at different levels of complexity. For each grade there is also a facilitator guide written for non-educators that includes examples of multiple approaches for solving problems, along with question stems and prompts for each of the three parts of all learning activities. Possible uses: student illness, family vacation, snow days, school closure, etc.

**NOTE: This list is a small sample of resources available on the Math Gains website. It is not meant to be exhaustive. Take some time to explore on your own!**

## Coaching Resources

<b>Books</b>	
<b>Coaching Leadership</b>	<u>Instructional Coaching</u> (A Partnership Approach to Improving Instruction), Jim Knight, ISBN 978-1-4129-2724-6 <u>Content-Focused Coaching</u> (Transforming Mathematics Lessons), Lucy West & F.C. Staub, ISBN 0-325-00462-5 <u>A Guide to Mathematics Coaching</u> , Ted H. Hull et al, ISBN 978-1-4129-7264-2 <u>Building Teachers' Capacity for Success</u> , Pete Hall & Alisa Simeral, ISBN 978-1-4166-0747-2 <u>Having Hard Conversations</u> , Jennifer Abrams, ISBN 978-1-4129-6500-2 <u>The Math Coach Field Guide</u> , edited by Carolyn Felux & Paula Snowdy, ISBN 978-0-941355-72-8 <u>Differentiated Coaching</u> , Jane A.G.Kise, ISBN 1-4129-1643-7
<b>Classroom Dynamics</b>	<u>The First Days of School</u> , Harry K. Wong & Rosemary T. Wong, ISBN 978-0-9764233-1-7 <u>Discipline in the Secondary Classroom</u> , Randall S. Sprick, ISBN 978-0-470-42226-7 <u>Classroom Management That Works</u> , Robert J. Marzano, ASCD, ISBN 978-0-87120-793-7
<b>Mathematical Content for Teaching</b>	<u>Teaching Student-Centered Mathematics</u> , K-3,(J. Van de Walle) Pearson 2006, ISBN 0-205-40843-5 <u>Teaching Student-Centered Mathematics</u> , 3-5,(J. Van de Walle) Pearson 2006, ISBN 0-205-40844-3 <u>Teaching Student-Centered Mathematics</u> , 5-8,(J. Van de Walle) Pearson 2006, ISBN 0-205-41797-3 <u>About Teaching Mathematics: A K-8 Resource</u> , Marilyn Burns, Math Solutions Publications, ISBN 0-941355-25-X <u>Big Ideas from Dr. Small</u> , Grades 4-8; Marian Small, Nelson Ed., 2009, ISBN 978-0-17-635713-9 <u>Big Ideas from Dr. Small</u> , Grades 9-12; Marian Small, Amy Lin; Nelson Ed., 2011, ISBN 978-0-17-650351-2 <u>Good Questions: Great Ways to Differentiate Mathematics Instruction</u> , Marian Small, Nelson Ed., 2009, ISBN 978-0-8077-4978-4 <u>More Good Questions: Great Ways to Differentiate Secondary Mathematics Instruction</u> , Marian Small & Amy Lin; Nelson Ed., 2010, ISBN 978-0-8077-5088-9 <u>Teacher Resource Binders</u> available with many approved publisher text series
<b>Instructional Strategies &amp; Tools</b>	<u>Think Literacy Mathematics (Subject Specific Examples Grades 7-9)</u> ISBN 0-7794-7216-003-252 <a href="http://www.edu.gov.on.ca/eng/studentsuccess/thinkliteracy/library.html#subjects">http://www.edu.gov.on.ca/eng/studentsuccess/thinkliteracy/library.html#subjects</a> <u>Differentiated Instructional Strategies in Practice</u> , Gayle H. Gregory, ISBN 0-7619-3902-4 <u>Beyond Monet- The Artful Science of Instructional Integration</u> , Barrie Bennett, Carol Rolheiser, ISBN 0-9695388-3-9
<b>Websites:</b>	
<a href="http://www.edugains.ca">www.edugains.ca</a> TIPS, CLIPS, Continuum & Connections, Classroom Dynamics, Video Clips, Research,... <a href="http://www.instructionalcoach.org/">http://www.instructionalcoach.org/</a> Instructional Coaching Resources; Jim Knight and University of Kansas <a href="http://lucywest.net/index.htm">http://lucywest.net/index.htm</a> Content-Focused Coaching; Lucy West <a href="http://www.effectiveteaching.com/cart.php?m=content&amp;page=11">http://www.effectiveteaching.com/cart.php?m=content&amp;page=11</a> Classroom Management; Harry, Rosemary Wong <a href="http://www.curriculum.org/secretariat/archive.shtml">http://www.curriculum.org/secretariat/archive.shtml</a> Webcasts for Educators: <a href="#">Coaching for Student Success in Mathematics,</a> <a href="#">Differentiating Mathematics Instruction,</a> <a href="#">High-Yield Strategies for Improving Mathematics Instruction and Student Learning,</a> <a href="#">Learning Mathematics Within Contexts,</a> <a href="#">Making Mathematics Accessible to All Students,</a> <a href="#">Mathematical Knowledge for Teaching with Dr. Deborah Loewenberg Ball,</a> <a href="#">Networked Learning Communities</a>	